

Contents

Editorial Introduction	vii
<i>D. Alpay and I. Gohberg</i>	
A Connection between Szegő and Nehari Sequences in the Matrix-valued Case	1
<i>J.A. Ball, A. Biswas, Q. Fang and S. ter Horst</i>	
Multivariable Generalizations of the Schur Class: Positive Kernel Characterization and Transfer Function Realization	17
<i>A. Böttcher, S. Grudsky and M. Schwartz</i>	
Some Problems Concerning the Test Functions in the Szegő and Avram-Parter Theorems	81
<i>M.R. Capobianco, G. Criscuolo and P. Junghanns</i>	
On the Numerical Solution of a Hypersingular Integral Equation with Fixed Singularities	95
<i>M. Chō, M. Giga and A.H. Kim</i>	
Spectrum and Principal Function of Operators	117
<i>M. Demuth</i>	
Spectral Consequences due to General Hölder's Inequalities and Domination of Semigroups	125
<i>Y. Dong, G. Exner, I.B. Jung and C. Li</i>	
Quadratically Hyponormal Recursively Generated Weighted Shifts ...	141
<i>A.E. Frazho, S. ter Horst and M.A. Kaashoek</i>	
Relaxed Commutant Lifting: An Equivalent Version and a New Application	157
<i>M. Fujii and E. Kamei</i>	
Variants of Ando-Hiai Inequality	169
<i>R. Harte</i>	
On Local Spectral Theory	175

<i>V.S. Rabinovich, S. Roch and B. Silbermann</i>	
The Finite Sections Approach to the Index Formula for Band-dominated Operators	185
<i>M. Seto</i>	
A New Proof that Rudin's Module is not Finitely Generated	195
<i>K. Tanahashi, I.H. Jeon, I.H. Kim and A. Uchiyama</i>	
Quasinilpotent Part of class A or (p, k) -quasihyponormal Operators	199
<i>M. Uchiyama</i>	
A New Majorization Induced by Matrix Order	211
<i>A. Yagi</i>	
H_∞ Functional Calculus and Characterization of Domains of Fractional Powers	217
<i>W. Żelazko</i>	
Operators on Locally Convex Spaces	237

Recent Advances in Operator Theory and Applications

Ando, T.; Jung, I.B.; Lee, W.Y. (Eds.)

2009, VIII, 248 p., Hardcover

ISBN: 978-3-7643-8892-8

A product of Birkhäuser Basel